

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1-41 (Canceled)

42. (Previously presented) A method of treating a disorder secondary to or resulting in oxidative stress to a patient, comprising:

identifying a patient suffering from a disorder secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the disorder is selected from the group consisting of: emphysema, bronchitis, adult respiratory distress syndrome, cystic fibrosis, pneumonia, and interstitial lung disease.

43. (Previously presented) The method of claim 42, wherein the disorder is emphysema.

44. (Previously presented) The method of claim 42, wherein the disorder is bronchitis.

45. (Previously presented) The method of claim 42, wherein the disorder is cystic fibrosis.

46. (Previously presented) The method of claim 42, wherein the disorder is pneumonia.

47. (Previously presented) The method of claim 42, wherein the disorder is interstitial lung disease.

48-49 (Canceled)

50. (Previously presented) The method of claim 42, wherein the disorder is adult respiratory distress syndrome.

51-52 (Canceled)

53. (Previously presented) The method of claim 42, wherein the composition is administered as an inhaled gas.

54. (Previously presented) The method of claim 53, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.

55. (Previously presented) The method of claim 54, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.

56. (Previously presented) The method of claim 42, wherein the patient is a human.

57. (Previously presented) A method of treating asthma in a human patient, comprising:  
identifying a human patient suffering from asthma; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide.

58. (Presently amended) A method of treating asthma in a patient, comprising:  
identifying a patient suffering from asthma; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the composition ~~comprises about 0.0001% to about 0.25%~~ contains 0.005% to 0.05% carbon monoxide.

59. (Previously presented) The method of claim 58, wherein the patient is a human.

60. (Presently amended) A method of treating cancer in a patient, comprising:  
identifying a patient suffering from cancer; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the cancer is selected from a group consisting of: cancer of the stomach, colon, rectum, liver, pancreas, ~~lung~~, kidney, cervix uteri, corpus uteri, ovary, prostate, testis, bladder, ~~skin~~, brain/central nervous system, head, neck, mouth, esophagus, larynx and pharynx; Hodgkins disease; non-Hodgkins leukemia; sarcoma; choriocarcinoma; and lymphoma.

61. (Previously presented) A method of treating cancer in a human patient, comprising:  
identifying a human patient suffering from cancer; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat cancer in the patient.

62. (Presently amended) A method of treating inflammation in a patient, comprising:  
identifying a patient suffering from inflammation of at least one organ selected from a group consisting of: kidney, ~~brain~~, heart, liver, ~~spleen~~, ~~skin~~ and lung; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the inflammation is of a type selected from a group consisting of: acute, allergic, alterative, atrophic, catarrhal, croupous, fibrinopurulent, fibrinous, immune, hyperplastic, proliferative, subacute, serous and serofibrinous inflammation.

63. (Presently amended) A method of treating inflammation in a human patient, comprising:

identifying a human patient suffering from inflammation of at least one organ selected from a group consisting of: kidney, ~~brain~~, heart, liver, ~~spleen~~, ~~skin~~ and lung; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the patient.

64. (Previously presented) A method of treating inflammation in a patient, comprising:  
identifying a patient suffering from or at risk of inflammation of at least one organ selected from the group consisting of: kidney, spleen and skin; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the patient.

65. (Presently amended) A method of ~~treating~~ reducing inflammation secondary to sepsis in a patient, comprising:  
identifying a patient suffering from or at risk of sepsis; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby ~~in an amount effective to reduce or prevent~~ inflammation secondary to sepsis.

66. (Presently amended) A method for ~~promoting wound healing in a patient~~ reducing inflammation associated with a wound, the method comprising:  
identifying a patient suffering from a wound; and  
administering to the patient a therapeutically effective ~~an~~ amount of a composition comprising carbon monoxide, wherein the amount is sufficient to reduce inflammation associated with the wound ~~sufficient to promote wound healing in the patient~~.

67. (Presently amended) A method of treating sepsis in a patient, comprising:  
identifying a patient suffering from or at risk of sepsis; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby in an amount effective to treat sepsis in the patient.

68. (Presently amended) A method of treating inflammation associated with arthritis in a patient, comprising:

identifying a patient suffering from or at risk for arthritis; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby in an amount effective to treat inflammation associated with arthritis in the patient.

69. (Presently amended) A method of treating a patient to reduce oxidative stress associated with hyperoxia, comprising:

identifying a human patient suffering from or at risk for oxidative stress associated with hyperoxia; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby in an amount effective to reduce oxidative stress associated with hyperoxia.

70. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 50 ppm.

71. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 100 ppm.

72. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 250 ppm.

73. (Presently amended) The method of claim 69, wherein the composition contains ~~comprises~~ carbon monoxide at a concentration of about 50 ppm to about 500 ppm.

74. (Presently amended) A method of treating a patient to reduce hyperoxic lung injury, comprising:  
identifying a human patient suffering from or at risk for hyperoxic lung injury; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby in an amount effective ~~to~~ reduce hyperoxic lung injury.

75. (Previously presented) The method of claim 74, wherein the composition comprises carbon monoxide at a concentration of at least 50 ppm.

76. (Previously presented) The method of claim 74, wherein the composition comprises carbon monoxide at a concentration of at least 100 ppm.

77. (Previously presented) The method of claim 74, wherein the composition comprises carbon monoxide at a concentration of at least 250 ppm.

78. (Presently amended) The method of claim 74, wherein the composition contains ~~comprises~~ carbon monoxide at a concentration of about 50 ppm to about 500 ppm.

79. (Withdrawn) A gaseous mixture comprising (a) at least 98% oxygen gas and (b) an amount of carbon monoxide gas effective to reduce in a patient hyperoxic lung injury caused by inhaling a gaseous composition at least 98% of which is oxygen.

80. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon monoxide gas at a concentration of at least 50 ppm.

81. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon monoxide gas at a concentration of at least 100 ppm.

82. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon monoxide gas at a concentration of at least 250 ppm.

83. (Withdrawn) The mixture of claim 79, wherein the mixture contains ~~comprises~~ carbon monoxide gas at a concentration of about 50 ppm to about 500 ppm.

84. (Withdrawn) A method of treating a patient in need of a high concentration of oxygen, comprising:

identifying a patient in need of a high concentration of oxygen; and  
administering to the patient the gaseous mixture of claim 79.

85. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 50 ppm.

86. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 100 ppm.

87. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 250 ppm.

88. (Withdrawn) The method of claim 84, wherein the mixture contains ~~comprises~~ carbon monoxide gas at a concentration of about 50 ppm to about 500 ppm.

89. (Presently amended) A method of treating inflammation associated with Alzheimer's disease or Parkinson's disease, comprising:

identifying a patient suffering from or at risk for Alzheimer's disease or Parkinson's disease; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, ~~to thereby in an amount effective to~~ treat inflammation associated with Alzheimer's disease or Parkinson's disease.

90. (New) A method of treating cancer in a patient, comprising:  
identifying a patient suffering from skin or lung cancer; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide at a concentration of about 25 to about 750 ppm.

91. (New) The method of claim 60, wherein the composition contains carbon monoxide at a concentration of about 50 to about 500 ppm.

92. (New) The method of claim 60, wherein the composition contains carbon monoxide at a concentration of about 25 to about 750 ppm.

93. (New) The method of claim 61, wherein the composition contains carbon monoxide at a concentration of about 50 to about 500 ppm.

94. (New) The method of claim 61, wherein the composition contains carbon monoxide at a concentration of about 25 to about 750 ppm.

95. (New) The method of claim 61, wherein the cancer is cancer of the skin or lung.

96. (New) A method of treating inflammation in a patient, comprising:  
identifying a patient suffering from inflammation of at least one organ selected from the group consisting of brain, spleen, and skin; and



administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the inflammation is of a type selected from the group consisting of acute, allergic, alterative, atrophic, catarrhal, croupous, fibrinopurulent, fibrinous, immune, hyperplastic, proliferative, subacute, serous and serofibrinous inflammation.

97. (New) A method of treating inflammation in a human patient, comprising:  
identifying a patient suffering from inflammation of at least one organ selected from the group consisting of brain, spleen, and skin; and  
administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the human patient.

98. (New) The method of claim 57, wherein the composition is administered as an inhaled gas.

99. (New) The method of claim 58, wherein the composition is administered as an inhaled gas.

100. (New) The method of claim 60, wherein the composition is administered as an inhaled gas.

101. (New) The method of claim 61, wherein the composition is administered as an inhaled gas.

102. (New) The method of claim 63, wherein the composition is administered as an inhaled gas.

103. (New) The method of claim 64, wherein the composition is administered as an inhaled gas.

104. (New) The method of claim 65, wherein the composition is administered as an inhaled gas.

105. (New) The method of claim 65, wherein the patient is a human.

106. (New) The method of claim 66, wherein the composition is administered as an inhaled gas.

107. (New) The method of claim 66, wherein the patient is a human.

108. (New) The method of claim 67, wherein the composition is administered as an inhaled gas.

109. (New) The method of claim 67, wherein the patient is a human.

110. (New) The method of claim 68, wherein the composition is administered as an inhaled gas.

111. (New) The method of claim 68, wherein the patient is a human.

112. (New) The method of claim 69, wherein the composition is administered as an inhaled gas.

113. (New) The method of claim 74, wherein the composition is administered as an inhaled gas.

114. (New) The method of claim 89, wherein the composition is administered as an inhaled gas.

115. (New) The method of claim 89, wherein the patient is a human.

116. (New) The method of claim 90, wherein the composition is administered as an inhaled gas.

117. (New) The method of claim 90, wherein the patient is a human.

118. (New) The method of claim 96, wherein the composition is administered as an inhaled gas.

119. (New) The method of claim 96, wherein the patient is a human.

120. (New) The method of claim 97, wherein the composition is administered as an inhaled gas.